

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A device to process material, comprising:

an energy beam source to generate an energy beam;

a plurality of energy beam transfer devices operatively connectable to the energy beam source and disposable relative to a single workpiece to be processed, to direct the energy beam in a predetermined pattern on an exterior surface of the workpiece; and

a housing to enclose the energy beam transfer devices and at least a portion of the workpiece to be processed, wherein the housing includes:

a first part; and

a second part, wherein the first part and the second part are pivotably coupled for movement relative to one another to releasably enclose at least the portion of the workpiece to be processed, and wherein the plurality of energy beam transfer devices are fixedly mounted to the housing and are stationary during processing of the workpiece.
2. (Original): The device of claim 1, wherein the energy beam source comprises one of an electron beam system or a laser material processing system.
3. (Original): The device of claim 1, wherein the energy beam transfer device comprises a lens.

4. (Previously Amended): The device of claim 1, further comprising:
a switching device to apply the energy beam to each energy beam transfer device to direct the energy beam.

5. (Canceled)

6. (Previously Amended): The device of claim 1, further comprising:
a first transfer device support coupled to an interior of the first part of the housing to support a first group of the plurality of energy beam transfer devices; and
a second transfer device support coupled to an interior of the second part of the housing to support a second group of the plurality of energy beam transfer devices.

7. (Previously Amended): The device of claim 1, further comprising a workpiece fixture to retain the workpiece in position relative to each of the plurality of transfer devices during a material processing operation.

8. (Original): The device of claim 7, wherein the workpiece fixture comprises a plurality of centering pins to hold the workpiece in position.

9. (Original): The device of claim 8, wherein the workpiece fixture further comprises:

a first pin support coupled to an interior of the first part of the housing to support a first group of pins of the plurality of centering pins; and

a second pin support coupled to an interior of the second part of the housing to support a second group of pins of the plurality of centering pins.

10. (Previously Amended): The device of claim 1, wherein the housing is adapted to form a seal around the workpiece to retain the energy beam and any debris within the housing during a material processing operation.

11. (Previously Amended): The device of claim 1, further comprising a tool positioner including:

a first operating lever; and

a second operating lever pivotally coupled to the first operating lever to hold the housing in position on the workpiece during a material processing operation.

12. (Original): The device of claim 4, further comprising a fiber optic cable to operatively connect each of the energy beam transfer devices to the energy beam source.

13. (Previously Amended): The device of claim 1, wherein the device is adapted to operate in substantially a vacuum and substantially a zero gravity environment.

14. (Original): The device of claim 1, wherein the workpiece comprises a component on an aerospace vehicle.

15. (Original): The device of claim 1, wherein the predetermined pattern is substantially completely around the exterior surface of the workpiece.

Claims 16-105 (canceled)

106. (New) The device of claim 1, wherein each energy beam transfer device is angled to allow the energy beam from each energy beam transfer device to overlap with the energy beam from adjacent energy beam transfer devices on the workpiece to substantially completely cover around the exterior surface of the workpiece.

107. (New) A device to process material, comprising:

an energy beam source to generate an energy beam;
a plurality of energy beam transfer devices operatively connectable to the energy beam source and disposable relative to a single workpiece to be processed, to direct the energy beam in a predetermined pattern on an exterior surface of the workpiece; and

a housing to enclose the energy beam transfer devices and at least a portion of the workpiece to be processed, wherein the housing includes:

a first part; and
a second part, wherein the first part and the second part are pivotably coupled for movement relative to one another to releasably enclose at least the portion of the workpiece to be processed and wherein the energy beam source is attached to the second part; and

a lever attached to the first part of the housing and extending from the housing adjacent to the energy beam source, wherein the lever is movable toward and away from the energy beam source to open and close the first and second parts of the housing to releasably enclose at least the portion of the workpiece to be processed.

108. (New) The device of claim 107, further comprising:

a first transfer device support coupled to an interior of the first part of the housing to support a first group of the plurality of energy beam transfer devices, wherein the first group of the plurality of energy beam transfer device are stationary during processing of the workpiece; and

a second transfer device support coupled to an interior of the second part of the housing to support a second group of the plurality of energy beam transfer devices, wherein the second group of the plurality of energy beam transfer device are stationary during processing of the workpiece.

109. (New) A device to process material, comprising:

an energy beam source to generate an energy beam;
a plurality of energy beam transfer devices operatively connectable to the energy beam source and disposable relative to a single workpiece to be processed, to direct the energy beam in a predetermined pattern on an exterior surface of the workpiece; and

a housing to enclose the energy beam transfer devices and at least a portion of the workpiece to be processed, wherein the housing includes:

a first part; and

a second part, wherein the first part and the second part are pivotably coupled for movement relative to one another to releasably enclose at least the portion of the workpiece to be processed;

a first transfer device support coupled to an interior of the first part of the housing to support a first group of the plurality of energy beam transfer devices, wherein the first transfer device and the first group of the plurality of energy beam transfer devices are stationary during processing of the workpiece; and

a second transfer device support coupled to an interior of the second part of the housing to support a second group of the plurality of energy beam transfer devices, wherein the second transfer device and the second group of the plurality of energy beam transfer devices are stationary during processing of the workpiece.